

Offshore Stats

A quarterly update of OCS-related natural gas and oil information

These statistics are preliminary and are subject to change. However, they accurately represent OCS activity levels as of the end of the quarter.

National Trends

During 1998, the United States imported almost 10.4 million barrels per day (MMbpd) of petroleum, whereas we exported an average of 931 thousand barrels per day (Mbpd), totaling a net import average of 9.5 MMbpd. This was up from the net petroleum import average of 9.2 MMbpd during 1997. Petroleum products supplied for domestic use in 1998 averaged about 18.6 MMbpd, about the same as for 1997. [Source: DOE/EIA, *Monthly Energy Review*, Feb. 1999 issue, pp. 42, 43, 135.]

Average weekly prices for crude oil in 1998 show West Texas Intermediate (WTI) crude at \$13.80 per barrel, Saudi Light (SAL) at \$12.55, and Alaska North Slope (ANS) at \$9.58. For the same period in 1997, the average prices were WTI \$19.67, SAL \$19.25, and ANS \$13.95. [Prices based on quotes from 1997 & 1998 issues of the *Oil & Gas Journal*.]

During 1998, the domestic first purchase price for crude oil averaged \$11.20 per barrel, compared to \$17.30 in 1997. The average price for natural gas at the wellhead was \$1.90 per thousand cubic feet (Mcf) compared to a \$2.32 average in 1997. [Source: DOE/EIA, *Monthly Energy Review*, Feb. 1999 issue, pp. 111, 125.]

OCS Trends

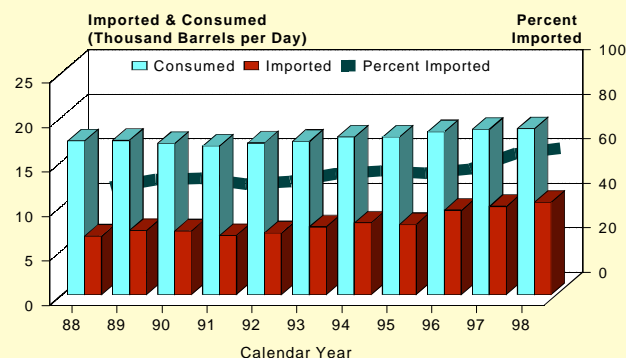
As of December 31, 1998, existing leases totaled 8,395 compared to 7,673 in 1997. About one-fifth of these leases are producing. (See *regional table*, p. 3.)

Exploratory drilling in 1998 exceeded 1997's drilling total, averaging 36.4 wells per month compared to 29.4 in 1997. Development drilling was down from 1997's total, averaging 46.3 wells per month compared to the 50.8 average in 1997. (See *drilling table*, p. 2.)

Platform installations for calendar year 1998 exceeded removals by 55, with a total of 116 installations and 61 removals. (See *regional table*, p. 3.)

OCS oil production for calendar year 1998 exceeded last year's total by 27.26 million barrels, with a total production of 489.58 million barrels, while OCS gas production totaled 5,098.54 billion cubic feet, dropping about 2 percent from last year's total. (See *production table*, p. 2, to compare last year's totals.)

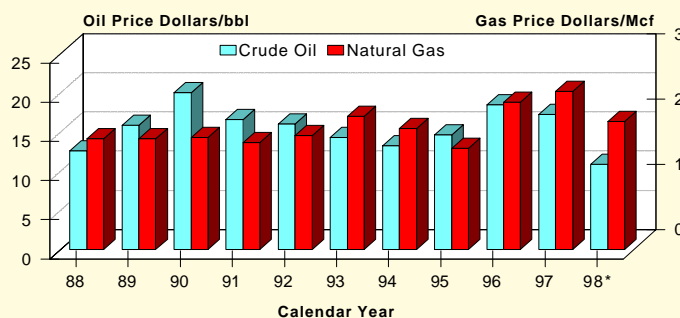
U.S. Petroleum: Consumed & Imported



Source: DOE/EIA Monthly Energy Review, April 1999 issue: pp. 43 and 135.

Prices of Crude Oil & Natural Gas

[Annual averages for gas based on domestic first purchase price at wellhead; annual averages for oil based on monthly prices weighted by volume.]



* Estimated average.

Source: DOE/EIA, Monthly Energy Review, April 1999 issue, pp. 111 and 125.

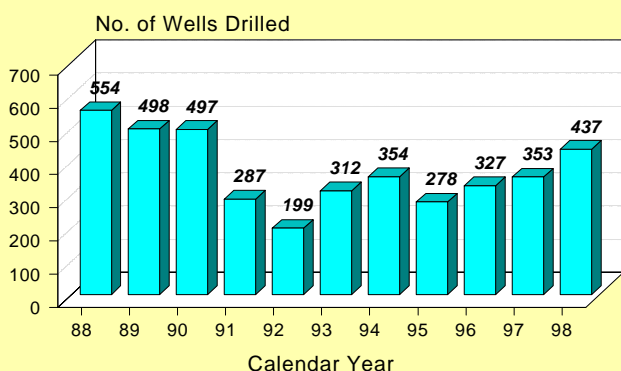
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Drilling—National OCS Monthly Data

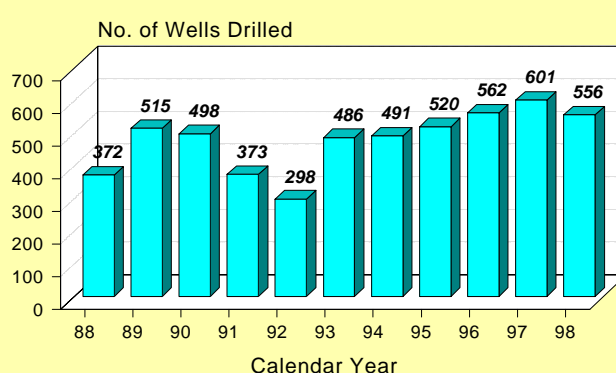
Wells Started	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD Total
• Exploratory:													
1998	49	40	45	45	38	36	43	30	25	27	37	22	437
1997	25	13	33	27	25	36	37	36	34	27	38	22	353
• Development:													
1998	65	72	58	63	38	49	51	58	23	36	23	20	556
1997	30	28	53	64	47	51	51	58	67	473	60	495	601

Exploratory Wells Drilled on the OCS: 1988-98



Source: GOM & Pac Quarterly Reports.

Development Wells Drilled on the OCS: 1988-98



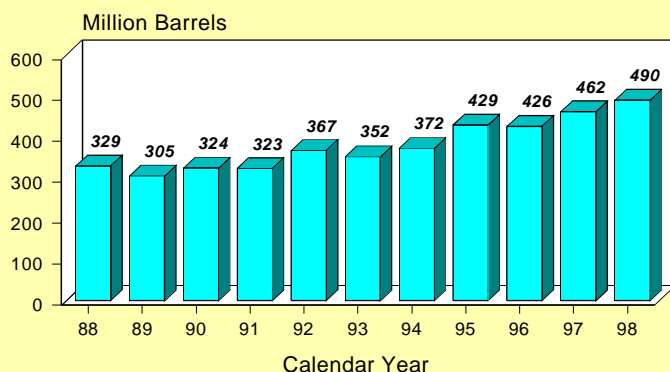
Source: GOM & PAC Quarterly Reports.

Production [Total volume]

	Jan	Fed	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD Total
Crude Oil & Condensate Combined (million barrels)													
1998.	42.93	37.70	42.54	42.61	43.60	41.59	42.44	43.83	31.57	39.92	38.48	42.37	489.58
1997	37.16	34.43	38.22	37.07	39.03	39.02	39.05	39.84	39.62	40.49	39.00	39.39	462.32
Gas Well Gas & Casinghead Gas Combined (billion cubic feet)													
1998	441.89	396.83	444.46	434.81	455.49	433.15	436.28	440.91	342.75	426.63	415.76	429.58	5,098.54
1997	439.57	402.8	446.25	430.76	443.20	434.60	442.26	447.41	435.68	429.44	413.11	417.49	5,182.65

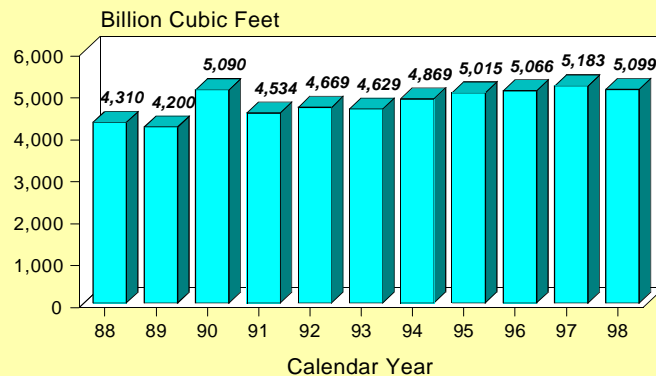
Source: GOM and PAC quarterly reports compiled from TIMS database.

Federal Offshore Crude Oil & Condensate Production: 1988-98



Source: TIMS Database Report generated 6/99.

Federal Offshore Natural Gas Production: 1988-98



Source: TIMS Database Report generated 6/99.

Regional—OCS Quarterly Data

	Alaska		Atlantic		Gulf of Mexico		Pacific		Total	
	3&4 Qtr.	YTD	3&4 Qtr.	YTD	3&4 Qtr.	YTD	3&4 Qtr.	YTD	3&4 Qtr.	YTD
Prelease Activities:										
G & G Permits Approved	0/0	0	0/0	0	25/41	142	0/0	0	25/41	142
Request for Interest	0/0	0	0/0	0	0	0	0/0	0	0	0
Call for Information/Comments	0/0	0	0/0	0	0/0	0	0/0	0	0/0	0
Area Identification	0/0	0	0/0	0	0/0	0	0/0	0	0/0	0
Draft EIS (Published)	0/0	0	0/0	0	0/0	0	0/0	0	0/0	0
Final EIS (Published)	0/0	0	0/0	0	0/0	0	0/0	0	0/0	0
Proposed Notice of Sale	0/0	0	0/0	0	0/1	1	0/0	0	0/1	1
Notice of Sale	0/0	0	0/0	0	1/0	1	0/0	0	1/0	^a 2
Sales	0/0	0	0/0	0	1/0	2	0/0	0	1/0	^a 2
Postlease Activities:										
APD's Approved	0/0	0	0/0	0	116/130	563	0/0	1	116/131	564
Boreholes Plugged & Abandoned	0/0	0	0/0	0	96/93	^d 557	0/0	0	96/93	^d 557
Exploration Plans Approved (Initial ^b)	0/0	0	0/0	0	58/53	249	0/0	0	58/53	249
Exploration Plans Approved (All)	0/0	0	0/0	0	96/90	387	0/0	0	96/90	387
Exploration Well Starts	0/0	0	0/0	0	98/86	^c 437	0/0	0	98/86	^c 437
Development Plans Approved (Initial ^b)	0/0	0	0/0	0	27/22	87	0/0	0	27/22	87
Development Plans Approved (All)	0/0	0	0/0	0	67/57	249	0/0	0	67/57	249
Development Well Starts	0/0	0	0/0	0	127/77	^d 544	0/0	0	127/77	^d 544
Platform Installations	0/0	0	0/0	0	38/24	119	0/0	0	38/24	119
Platforms—In place	0/0	0	0/0	0	3939/3963	NA	23/23	NA	3962/3986	NA
Platform Removals	0/0	0	0/0	0	26/13	61	0/0	0	26/13	61
Platform Approvals	0/0	0	0/0	0	49/28	172	0/0	0	49/28	172
SOP's Approved	0/0	0	0/0	0	23/25	110	0/0	0	23/25	110
Current Status of Prelease & Postlease Activities:										
As of December 31, 1998										
Existing Leases		78		53	^e 8181			83	^e 8395	
<200 meters		78		0	4068			31	4177	
200–400 meters of water		0		0	277			29	306	
400–900 meters of water		0		14	681			23	718	
>900 meters of water		0		39	3155			0	3194	
Acres under lease (millions)		0.31		0.30	42.85			0.42	44.88	
Producing Leases		0		0	^f 1588			43	^f 1631	
Fields (Total)		0		0	712			38	750	
Producing		0		0	662			11	673	
Non-Producing		0		0	50			27	77	

NA—The YTD column does not apply because the number of platforms in place changes monthly.

^a Sale 169 & 171.

^b Does not include reviews of initial plan submittals, required plan revisions, draft plans before they are officially deemed complete, or requests modify or waive a previously approved plan condition.

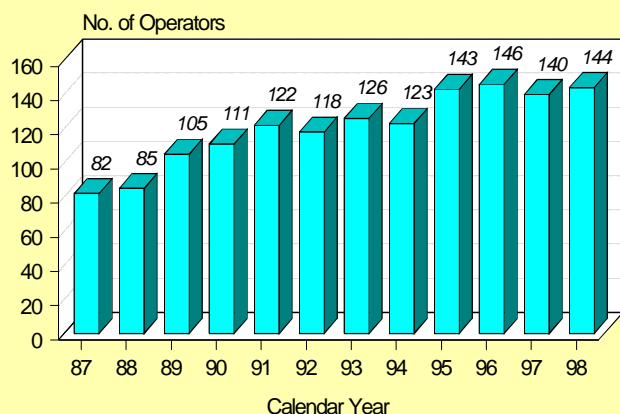
^c Includes 12 sulfur & salt wells.

^d Includes 11 sulfur & salt wells.

^e Includes 5 sulfur leases and 1 salt lease.

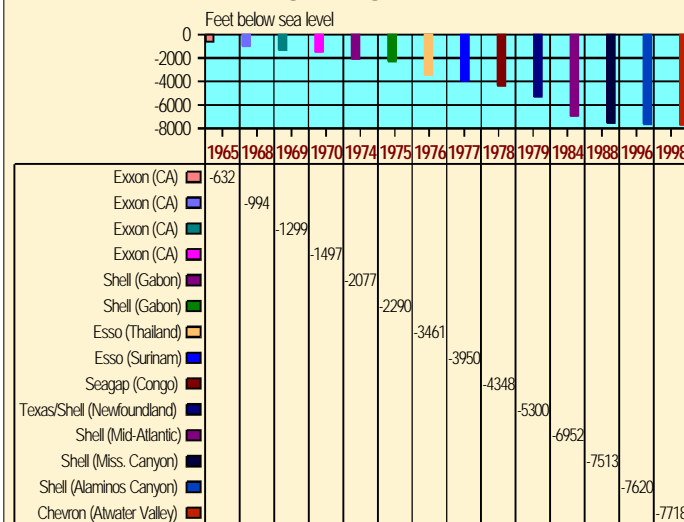
^f Includes 2 sulfur leases.

Operators Producing Oil & Natural Gas: 1988-98



Source: TIMS GOM & PAC Database Reports, April 1999.

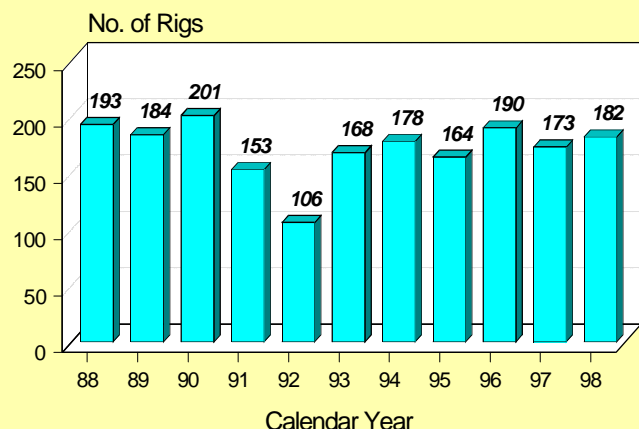
Deepwater Drilling Progression—Worldwide



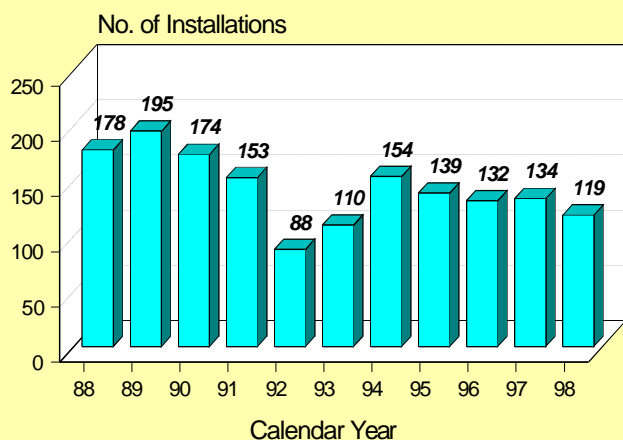
Rigs & Production Platforms

Annual OCS Rig Count: 1988-98

[Based on 52-week average]

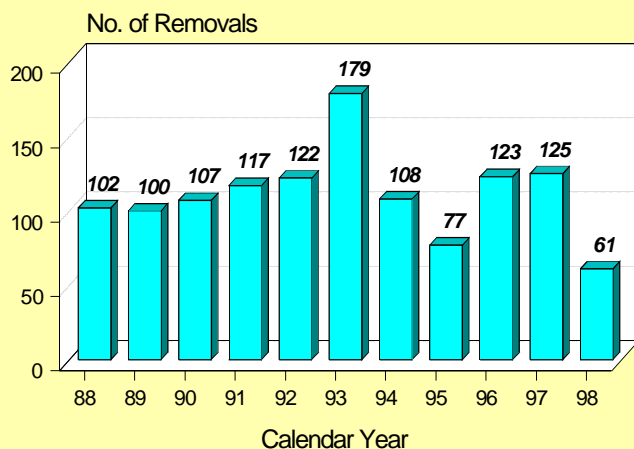


OCS Platform Installations: 1988-98



Source: GOM & PAC Quarterly Reports.

OCS Platform Removals: 1988-98



Source: GOM & PAC Quarterly Reports.

GOM Deepwater Discoveries & Fields

[Asterisk after block number denotes producing field]

Project Name	Area	Block	Depth (ft)/(m)	Operator (Partner)
BAHA	Alaminos Canyon	600	7620/2323	Shell
Coulomb	Mississippi Canyon	657	7500/2286	Shell
Metallica	Mississippi Canyon	911	7000/2128	BP Exploration
Nakika ¹	Mississippi Canyon	383/429/520/522	6950/2134	Shell (Amoco)
King's Peak (SS)	Desoto Canyon	133	6530/1990	Amoco
Neptune	Atwater Valley	575	6220/1896	BP Exploration
King	Mississippi Canyon	84	5500/1676	Amoco
Mensa (SS)	Mississippi Canyon	687*	5376/1639	Shell
South Diana (SS)	Alaminos Canyon	65	4800/1463	Exxon
Hoover (Spar)	Alaminos Canyon	25/26	4785/1458	Exxon (BP)
Diana	East Banks	945	4500/1371	Exxon (BP)
Poseidon	Green Canyon	691	4489/1368	BP
Crosby	Mississippi Canyon	899	4452/1357	BP
Mickey (SS)	Mississippi Canyon	211	4356/1328	Exxon (BP)
Narcissus	Mississippi Canyon	630	4250/1295	Texaco
Fuji	Green Canyon	506	4243/1293	Texaco (Shell)
Ursa (TLP)	Mississippi Canyon	809	3916/1194	Shell (Exxon/BP/Conoco)
Zeus	Mississippi Canyon	941	3905/1190	Exxon
MC 837 (SS)	Mississippi Canyon	837	3900/1189	Walter
Europa (SS)	Mississippi Canyon	935	3870/1179	Shell (BP/Conoco)
King Kong ²	Green Canyon	472/473/517	3817/1163	Conoco (Shell/British-Borneo)
Boomvang East (SS)	East Banks	688	3737/1139	Reading & Bates
North Boomvang	East Banks	643	3688/1124	Reading & Bates (Norcen)
Macaroni (SS)	Garden Banks	602	3600/1097	Shell
Nile	Viosca Knoll	914	3535/1077	Amoco
Nirvana	Mississippi Canyon	162	3414/1041	BP Exploration
Gemini (Spar)	Mississippi Canyon	292	3393/1034	Texaco (Chevron)
Glider (TLP)	Green Canyon	248	3300/1006	Shell
Ram Powell (TLP)	Viosca Knoll	956*	3255/992	Shell(Exxon/Amoco)
King	Mississippi Canyon	764	3250/991	Vastar (Shell/BP)
Marlin (TLP)	Viosca Knoll	915	3236/986	Amoco
Sorano (SS)	Garden Banks	516	3153/961	Shell
Allegheny (FPS)	Green Canyon	254	3186/971	British-Borneo
No name	Mississippi Canyon	243	3100/945	Conoco (Oryx)
Gomez (Spar/TLP)	Mississippi Canyon	755	3000/914	Union Pacific
Mars (TLP) (SS)	Mississippi Canyon	807*	2940/896	Shell(BP)
Brutus (TLP) (SS)	Green Canyon	158	2877/877	Shell (Exxon)
Auger (TLP)	Garden Banks	426*	2860/872	Shell (BP)
Pluto ³	Mississippi Canyon	673/674/718	2828/862	Mariner (BP Exploration)
Troika (SS)	Green Canyon	244*	2721/828	BP Exp (Shell/Marathon)
Genesis (SPAR)	Green Canyon	205	2597/792	Chevron (Exxon/Fina)
Bison	Green Canyon	166	2518/767	Exxon
Leo	Mississippi Canyon	502/503/546	2500/760	BBE1 (Shell)
GB 386 (SS)	Garden Banks	386	2300/701	Enserch
Cooper (FPS)	Garden Banks	388*	2190/668	Enserch (BP)
Diamond (SS)	Mississippi Canyon	445*	2095/639	Oryx Energy
MC 443 (SS)	Mississippi Canyon	443	2095/639	Walter
Stellaria	Green Canyon	112/113	2045/623	Marathon/Shell
Popeye II (SS)	Green Canyon	116*	2000/609	Shell (CNG/Mobil/BP)
Neptune (SPAR)	Viosca Knoll	826*	1930/588	Oryx Energy
No name	Garden Banks	254	1920/585	Chevron USA
EW 1006 (SS)	Ewing Banks	1006	1884/574	Walter
Pompano II (SS)	Mississippi Canyon	28*	1865/568	BP Exploration (Kerr-McGee)
Black Widow (SS)	Ewing Banks	966	1850/564	Mariner
Arnold (SS)	Ewing Banks	963*	1800/549	Marathon
Rocky (SS)	Green Canyon	110*	1785/544	Shell
Petronius (CT)	Viosca Knoll	786	1754/535	Texaco (Marathon)

See footnotes at end of table on next page.

GOM Deepwater Discoveries & Fields (cont.)

[Asterisk after block number denotes producing field]					[Asterisk after block number denotes producing field]				
Project Name	Area	Block	Depth (ft)/(m)	Operator (Partner)	Project Name	Area	Block	Depth (ft)/(m)	Operator (Partner)
Knight	Garden Banks	372	1740/530	Santa Fe	Pompano I (FP) (SS)	Viosca Knoll	989*	1290/393	BP (Kerr-McGee)
Jolliet (TLP)	Green Canyon	184*	1720/524	Conoco	No Name	Mississippi Canyon	26	1272/388	BP
Thor (SS)	Viosca Knoll	825*	1720/524	Oryx Energy	Oyster (SS)	Ewing Banks	917*	1200/366	Marathon (Texaco)
Grand Canyon	Green Canyon	141	1715/523	Conoco	Salsa	Garden Banks	171	1076/328	Amerada Hess
No Name (SS)	Green Canyon	72	1655/504	Mobil	Virgo	Viosca Knoll	823	1130/344	Elf Exploration
No Name	Green Canyon	228	1638/499	Texaco	Dulcimer (SS)	Garden Banks	367	1120/341	Mariner
Baldpate (CT)	Garden Banks	260*	1641/500	Amerada Hess	Mosquito Hawk	Garden Banks	269	1102/323	Texaco
Morpeth ⁴ (TLP) (SS)	Ewing Bank	921/964/965	1630/497	British-Borneo	Alabaster (SS)	Mississippi Canyon	397*	1059/336	Exxon (Enserch/Walter)
Llano	Garden Banks	386	1526/465	EEX Corp.	VK 862 (SS)	Viosca Knoll	862*	1043/318	Walte
MC 411 (SS)	Mississippi Canyon	441	1520/463	Enserch (Agi/Fina)	Shasta (SS)	Green Canyon	136*	1040/317	Texaco (Hardy/Samedan)
Conger	Garden Banks	215	1500/457	Amerada Hess (Oryx)	Spirit	Viosca Knoll	780*	1040/317	Shell
Tahoe (SS)	Viosca Knoll	783*	1500/457	Shell (Murphy)	Amberjack (FP)	Mississippi Canyon	109*	1029/314	BP (Shell, Conoco)
Zinc (SS)	Mississippi Canyon	354*	1478/450	Exxon	Cognac (FP)	Mississippi Canyon	194*	1025/312	Shell
Toro	Green Canyon	69	1465/447	Shell	Seattle Slew	Ewing Banks	914*	1019/311	Tathan
Penn State	Garden Banks	216	1450/442	Amerada Hess (Oryx)	Lena (CT)	Mississippi Canyon	281*	1018/310	Exxon
Sunday Silence (TSpar)	Ewing Banks	958	1450/442	Tatham Offshore	FP = Fixed Platform FPS = Floating Platform System CT = Compliant Tower TLP = Tension Leg Platform SS = Subseas System SPAR = Unit consisting of single point buoy tanker loading and mooring platform with storage tank TSPAR = Truss Spar ¹ Ariel, Fourier, Herschel, and Keppler renamed to Nakika project. ² Vancouver renamed to King Kong project ³ Blood Sweat & Tears renamed to Pluto project ⁴ Klamath renamed to Morpeth.				
Ladybug	Garden Banks	409	1355/413	Texaco (Unocal)					
Bullwinkle (FP)	Green Canyon	62*	1353/412	Shell					

Inspections, INC's & Enforcements

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD Total
Inspections:													
Drilling facilities	92	133	143	124	116	169	148	128	88	137	91	91	1,460
Production facilities	211	346	413	330	463	472	484	419	255	498	232	202	4,325
Pipeline	9	9	16	13	22	11	5	20	7	2	4	1	119
Safety Metering	212	237	345	269	328	507	533	400	171	333	165	116	3,616
Workover/Completion	23	25	55	35	36	73	58	41	18	35	26	20	445
Abandonment	2	5	3	7	1	11	7	4	3	8	3	3	57
Environmental	17	25	38	24	31	41	83	45	35	5	5	27	376
Total	566	780	1,013	802	997	1,284	1,318	1,057	577	1,018	526	460	10,398
Incidents of Noncompliance (INC's):													
Enforcements:*													
Platform Component Shut-Ins	157	144	199	132	200	298	265	230	58	136	97	180	2,096
Platform Shut-Ins	13	7	11	3	15	22	10	6	5	6	10	5	113
Platform Warnings	72	84	111	100	175	293	205	167	60	108	82	134	1,591
Riq Component Shut-Ins	0	0	4	4	6	6	8	3	2	0	0	3	36
Riq Shut-Ins	3	13	9	2	2	6	5	3	4	6	0	3	56
Riq Warnings	15	36	51	18	25	23	33	11	8	8	2	14	244
Pipeline Component, Shut-Ins, Warnings	0	0	0	0	0	0	1	0	2	2	0	0	5
Well Component, Shut-Ins, Warnings	24	6	12	2	5	4	16	10	7	8	9	0	102
Total	284	290	397	261	428	652	543	430	146	274	200	339	4,244

OCS Oil Spill Data 1987-98

Year	GULF OF MEXICO REGION			PACIFIC REGION			Total OCS Spillage (barrels)
	Number of Spills by Volume		Total GOM Spillage (barrels)	Number of Spills by Volume		Total Pacific Spillage (barrels)	
	>1-50 barrels	>50 barrels		>1-50 barrels	>50 barrels		
1987	35	1	231	2	0	11	242
1988	30	3	15,971	1	0	2	* 15,978
1989	24	1	476	3	0	8	484
1990	35	3	19,308	0	1	100	19,408
1991	33	1	646	3	0	61	707
1992	29	2	2,336	0	0	0	2,336
1993	24	0	147	0	0	0	147
1994	20	4	5,051	3	0	83	5,134
1995	32	4	1,377	**1	0	1	1,378
1996	33	3	491	1	1	155	646
1997	28	2	471	1	1	164	635
1998	13	5	1,482	0	0	0	1,482

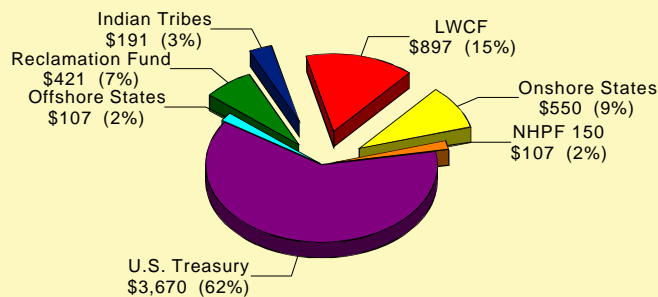
* Includes one spill of 5 barrels on the Alaska OCS. ** 1.4 barrels rounded to 1 barrel.
 Note: In 1995, three spills were greater than 50 barrels: East Cameron 219 (75 barrels of condensate), High Island A371 (89 barrels of diesel fuel), and West Cameron 198 (435 barrels of condensate).

Disbursements—Section 8(g) by State [in thousands of dollars]

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD Total
• AL:													
1998	1,696.37	1,351.47	1,083.22	1,545.29	1,030.39	875.61	1,050.85	1,204.47	907.16	980.48	666.46	724.96	13,116.73
1997	753.59	1,346.28	1,917.83	2,261.03	705.31	1,011.11	1,229.25	1,139.91	1,062.20	855.08	1,014.37	1,301.58	14,597.54
• AK:													
1998	9.07	0.00	0.00	13,400.00	0.00	0.00	19.97	12.00	10.83	5.55	1,253.37	11.77	14,722.49
1997	0.00	0.00	0.00	13,400.99	22.96	0.00	6.10	94.45	26.33	0.57	60.78	28.29	13,640.47
• CA:													
1998	76.91	239.94	212.19	29,027.99	82.67	0.00	0.00	74.73	949.47	106.93	77.33	73.83	1,923.03
1997	359.34	323.30	312.75	29,199.02	227.93	385.53	290.40	228.36	253.05	251.39	108.89	117.25	32,057.21
• FL:													
1998	0.00	0.00	0.39	1.39	0.00	0.00	0.00	0.00	0.00	97.33	0.00	0.00	99.11
1997	10.10	0.00	0.39	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	10.58
• LA:													
1998	1,198.85	945.72	883.78	9,057.70	1,209.47	781.01	1,992.70	643.68	661.75	629.37	390.42	438.88	14,076.53
1997	1,334.39	1,586.83	1,440.05	9,536.62	1,166.66	1,364.55	812.88	5,499.52	809.06	826.73	922.05	1,144.57	26,443.91
• MS:													
1998	85.99	76.26	38.25	238.28	368.61	68.92	244.08	278.41	35.03	43.60	26.75	7.74	876.31
1997	0.00	37.90	54.75	314.40	10.81	59.47	55.11	60.31	76.04	54.98	69.70	67.24	860.71
• TX:													
1998	2,861.52	1,089.97	807.11	14,203.96	742.13	891.29	720.99	754.52	698.89	653.65	502.68	1,663.01	20,595.98
1997	1,350.90	1,212.47	1,319.70	14,543.31	628.67	629.32	577.10	866.60	862.89	1,021.17	1,053.54	1,229.48	25,295.15

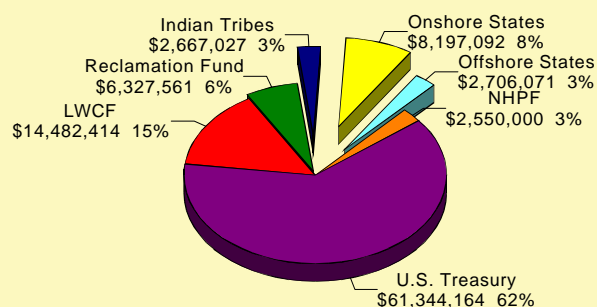
Other Disbursements

Fiscal Year 1998 Disbursements
[In millions]



LWCF = Land & Water Conservation Fund
NHPF = National Historic Preservation Fund
Source: MMS Royalty Management Program website @
<http://www.rmp.mms.gov/disburse.htm> as of May 17, 1999.

FY 1982-98: Cumulative Disbursements
[In thousands]



LWCF = Land & Water Conservation Fund
NHPF = National Historic Preservation Fund
Source: MMS Royalty Management Program website @
<http://www.rmp.mms.gov/disburse.htm> as of May 17, 1999.

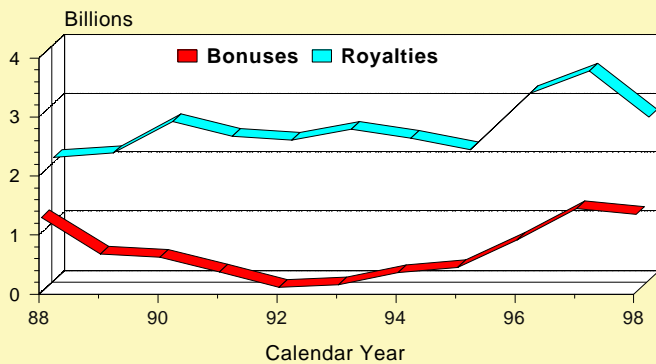
OCS Revenues—Rents & Royalties [in millions of dollars]

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD Total
• Rental:													
1998	20.28	1.41	1.41	23.75	31.09	38.71	35.46	17.60	12.25	24.37	22.63	29.53	268.49
1997	13.99	0.74	0.99	24.51	14.89	27.07	44.03	19.79	6.72	30.29	20.19	28.08	231.29
• Royalty:													
1998	240.37	312.53	231.99	217.70	238.62	228.70	295.50	177.13	255.25	197.83	180.29	180.93	2,756.94
1997	272.99	463.05	403.41	322.79	212.13	241.34	270.88	221.86	282.12	289.60	225.39	414.62	3,620.18

OCS Revenue Contributions

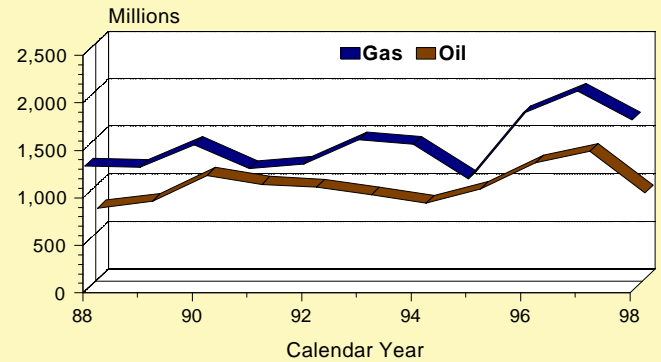
Royalties vs. Bonus Payments: 1988-98

[Rents for Calendar Year 1998 were \$258,475,121]



Source: MMS Royalty Management Program website as of May 17, 1999.

OCS Production Royalties: 1988-98



Source: MMS Royalty Management Program website, May 17, 1999.

OCS Civil Penalties Paid in 1998

Case No.	Violation Description	Violation Date(s)	Penalty Paid	
			Amount	Date
PAC-96-01	Failure to close pig trap allowed oil to flow into the Pacific Ocean.	05/01/96	\$25,000	03/24/98
GOM-96-37	Sump pump found inoperable; bypassed sump pump PSHL; bypassed platform fuel gas filter PSHL.	05/07/95	\$9,000	01/14/98
GOM-97-05	Gas and fire detection systems for three platforms not tested within required timeframe.	(02/26/96-02/27/96)	\$18,000	02/12/98
GOM-97-06	To excite faulty transformer, operator pulled 480-volt cable out of breaker and repowered with cable removed, causing an arc.	(05/27/96-07/10/96)	\$75,000	05/07/98
GOM-97-07	BSL for heater treater inoperable.	(07/30/96-11/12/96)	\$40,000	04/16/98
GOM-97-08	Wells A-2,A-4,A-9,A-10, and A-14 SCSSV's bypassed with hydraulic control lines isolation valves closed; wells not flagged or attended.	(11/03/96-11/04/96)	\$40,000	05/19/98
GOM-97-13	ESD bypassed on subsea well number 5.	09/20/95	\$5,000	01/26/98
GOM-97-15	LSH and LSL bypassed on fuel gas scrubber.	(12/20/96)	\$5,000	02/18/98
GOM-97-17	Multiple safety devices not tested within required time frame.	11/20/96	\$72,500	03/26/98
GOM-97-18	Total safety system shutdown--performax and LSH on skimmer sump tank were bypassed.	(01/16/97-01/19/97)	\$66,000	01/15/98
GOM-97-19	Well A-1 hydraulic control line to SCSSV closed and not flagged or monitored.	02/12/97	\$5,000	02/18/98
GOM-97-25	Multiple safety devices bypassed on pipeline pumps, oil surge tank, test separator, sump tank, LACT booster pump, and flow lines.	06/23/98	\$17,000	06/23/98
GOM-97-28	Flash fire occurred when using standard electric drill to drill holes in flotation cell.	06/08/97	\$12,000	06/04/98
GOM-97-29	Platform had no operable firewater system or approved chemical fire-fighting system.	(07/03/96-07/29/96)	\$162,000	02/23/98
GOM-97-31	Grating removed from two openings on production deck— not barricaded, flagged, or monitored.	05/08/97	\$5,000	05/27/98
GOM-97-32	Legs of barge ruptured a high pressure gas pipeline during positioning—pipeline not marked and captain not made aware of its location.	02/02/97	\$10,000	06/04/98
GOM-97-33	Because ESD stations were bypassed at supply control panel, switches did not activate the ESD.	09/06/96	\$10,000	04/02/98
GOM-97-34	Well E-17 SCSSV blocked out of service; Well E-5 tubing plug not tested within required time.	(07/03/96-07/24/96)	\$6,500	05/15/98
GOM-97-36	Employee injured when he fell through open grating with no barrier.	03/13/97	\$15,000	03/04/98
GOM-97-38	Fall protection not secured for two workers working near an open hole.	02/05/97	\$10,000	05/06/98
GOM-97-41	Numerous safety devices blocked out of service at main control panel.	04/02/97	\$135,000	08/03/98
GOM-97-42	Gas and fire detection systems not tested within required time frames.	06/24/97	\$10,000	06/15/98
GOM-97-44	Compressor suction scrubber LSL sensor didn't operate because adjustment screw was bypassed.	06/11/97	\$10,000	06/11/98
GOM-97-45	Pollution incident occurred because shutdown relay on flotation cell was blocked out-of-service (bypassed).	03/04/97	\$15,000	10/09/98
GOM-97-46	Bypassed seven vessels' safety devices. LSH bypassed on bad oil tank. Well produced 32 days without subsurface safety valve.	(01/14/97-06/29/97)	\$103,200	12/29/98
GOM-97-48	Three open holes improperly barricaded and not flagged.	06/19/97	\$15,000	07/09/98
GOM-97-49	LSH on vent scrubber was inoperable.	07/09/97	\$5,000	05/05/98
GOM-97-50	Platform sump system inoperable. Sump tank LSH not tested within required time.	04/25/96	\$64,000	08/06/98
GOM-97-51	Safety system for compressor bypassed at master panel.	03/12/96	\$8,000	08/19/98
GOM-97-52	Platform sump tank LSH bypassed.	02/22/97	\$8,000	05/18/98
GOM-97-54	Well A-1 SCSSV bypassed at well head; isolation valve closed during testing remained closed for 2 days until discovered at inspection.	(07/10/96-07/11/97)	\$10,000	08/07/97
GOM-97-58	Well E-16 SCSSV in bypass mode.	02/03/97	\$6,000	06/22/98
GOM-97-59	Air supply valves to air pumps that operate BOP accumulator charging system in bypass position during inspection.	(07/18/97-07/25/97)	\$26,000	06/04/98
GOM-97-60	Well 16-A PSHL was bypassed; Well 32 SCSSV was bypassed.	(09/07/97)	\$12,000	04/17/98
GOM-98-01	No qualified crane operator, exceeding dynamic rating for crane, and failure to prevent pollution.	01/15/98	\$35,000	07/30/98
GOM-98-02	Employee burned when small fire flashed from gas operated pneumatic saw during plug and abandon operations.	08/06/97	\$9,000	05/18/98
GOM-98-03	Safety devices not tested within required 6-week interval.	08/20/96	\$7,000	03/19/98
GOM-98-05	Gas detector not used while welding and production equipment covers within 35 feet not flame proof; LSH pinned out of service.	(08/18/97-09/02/97)	\$15,000	06/05/98
GOM-98-06	Well 9 hydraulic line in closed position not flagged nor monitored.	07/21/97	\$6,000	06/12/98
GOM-98-07	Employee with no protection gear was working near unflagged open hold with no barrier around it.	09/01/98	\$15,000	09/01/98
GOM-98-08	PSHL locked open, no fire detection system, PSE set higher than allowed, and LSH bypassed.	08/10/96-10/08/96	\$24,000	07/08/98
GOM-98-09	Failure to test PSV's.	03/15/96-01/15/97	\$15,000	07/17/98
GOM-98-16	SCSSV bypassed for 6 wells.	12/18/97	\$42,000	09/10/98
GOM-98-18	Rig personnel not wearing fall protection gear while working in hazardous area.	09/18/97	\$5,000	06/22/98
GOM-98-24	Hydraulic line for well 11-D ball valve (SCSSV) isolated at tree. Valve not flagged or monitored.	07/21/97	\$6,000	12/21/98
GOM-98-25	ESD system remote on boat landing bypassed.	11/24/97	\$15,000	06/09/98
GOM-98-32	Injury caused when break-out tong was rigged and used improperly—not hung from air hoist line nor secured with snub line.	11/11/97	\$23,000	06/17/98
GOM-98-33	Bypassed LSH on sump.	09/27/97	\$3,000	09/15/98
GOM-98-34	Bypassed SCSSV on Wells A-2, A-4, and A-5.	(11/16/97-11/17/97)	\$24,000	08/12/98

Penalties paid (01/01/98-06/30/98) for 50 cases.....\$1,297,200

Historical Firsts—Onshore & Offshore

• First well drilled specifically for oil (Titusville, PA)	1859
• First jack-up drillship patent (Samuel Lewis)	1869
• First over-water well drilled (Summerland, CA)	1896
• First drilling mud used (Spindletop)	1900
• First GOM well drilled (Creole Field)	1938
• First GOM OCS exploratory well drilled	1946
• First offshore lease sale	1954
• Production from water depths exceeding 100 ft.	1955
• World's first drillship (<i>Cuss I</i>)(Santa Barbara Channel)	1956
• First subsea well drilled.....	1961
• First Pacific OCS exploratory well drilled.....	1963
• Birth to North Sea oil and gas industry with Ekofisk Field discovery	1969
• World's first offshore concrete gravity base structure (Beryl platform)	1975
• First Alaska OCS exploratory well drilled	1976
• First Atlantic OCS exploratory well drilled	1977
• First fixed platform installed beyond 1,000 ft. water depth	1979
• First artificial island built in the Arctic	1982
• First compliant guy-towered platform (in GOM)	1983
• First oil produced from beneath 2,000 ft. of water	1984
• First horizontal wells drilled offshore	1991
• 3D seismic data acquisition set global trend	1992
• First sub-salt discoveries in the U.S. GOM.....	1993
• First production SPAR in the world installed in Central GOM.....	1996
• First royalty relief granted under the Deepwater Royalty Relief Act	1997

Sources: Pennwell Publishing Company; MMS.

Chronology of OCS-Related Laws

1954	Outer Continental Shelf Lands Act
1969	National Environmental Policy Act
1970	Clean Air Act
1972	Coastal Zone Management Act
1973	Endangered Species Act
1977	Clean Water Act
1978	OCS Lands Act Amendments
1982	Federal Oil & Gas Royalty Management Act
1984	National Fishing Enhancement Act
1985	OCS Lands Act Amendment to Section 8(g)
1990	Clean Air Act Amendments Oil Pollution Act of 1990 (OPA 90) North Carolina Outer Banks Protection Act OCS Lands Act Amendment to Section 8(j)
1995	Deepwater Royalty Relief Act
1996	OPA 90 Amendments

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NOTE: Data in the tables and graphs reflect a cut-off date of December 31, 1998.

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